

USSN 09/421,506

AND-1001-UTL1-CON1

AMENDMENT -- Application Title

Please cancel the title of the application and replace it with the following:

METHODS FOR IDENTIFYING AND ISOLATING ANTIGEN-SPECIFIC T CELLS

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AMENDMENT – Specification

Please amend the paragraph that spans page 46, lines 12-26, in specification, as follows:

Any suitable biological sample ~~which~~ that contains T cells specific for the antigen of interest may be used in the method. Suitable biological samples containing T cells specific for an antigen of interest include fluid biological samples, such as whole blood, blood cells, blood plasma, and cerebrospinal fluid, and solid biological samples, such as tissue, for example, histological samples. In one embodiment of the above example, the artificial APC may be complexed to a solid support in addition to the T cell. The complexing of the APC to the solid support provides a means to anchor the APC so that it and any T cell binding to it can be preferentially captured and isolated from extraneous matter. In such case, the solid support may be a glass or magnetic bead that is coated with a lipid ~~mono~~ monolayer that is bound to the bead by, for example, a linker. The solid support may additionally have noncovalently bound accessory molecules associated with the lipid layer such as binding molecules that recognize and bind to irrelevant molecules associated with the artificial APC. In another embodiment, the binding molecules may be covalently bound to the solid support by a linker. Additionally, the lipid layer may further include GM-1 ganglioside molecules for binding to a molecule of interest that is connected to cholera toxin subunit for orienting said molecule of interest.